

Appl. No. 09/627,913  
Amdt. Dated July 9, 2004  
Reply to Office action of April 19, 2004  
Attorney Docket No. P13318-US2  
EUS/JIP/04-3150

**Amendments to the Claims:**

This listing of Claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1.-8 (Canceled)

9. (Previously Presented) The telecommunications system of Claim 19, wherein said UDP header information and IP header information include at least an IP address associated with said second node.

10. (Previously Presented) The telecommunications system of Claim 9, wherein said UDP header information and IP header information further include a UDP port number associated with said second node.

11. (Previously Presented) The telecommunications system of Claim 19, wherein said first node is a Channel Codec Unit within a Base Transceiver Station and said second node is a Transcoder/Rate Adaptor Unit within a Media Gateway.

12. (Previously Presented) The telecommunications system of Claim 19, wherein said first node is a Transcoder/Rate Adaptor Unit within a Media Gateway and said second node is a Channel Codec Unit within a Base Transceiver Station.

13. (Previously Presented) The telecommunications system of Claim 19, wherein said UDP packet further comprises:

frame type information associated with a frame type of said payload, said frame type information being appended to said payload by said first node.

14. (Original) The telecommunications system of Claim 13, wherein said frame type is selected from the group consisting of: a full rate or enhanced full rate

Appl. No. 09/827,913  
Amdt. Dated July 9, 2004  
Reply to Office action of April 19, 2004  
Attorney Docket No. P13318-US2  
EUS/J/P/04-3150

speech frame, an adaptive multi-rate speech frame, a half rate speech frame, an operation and maintenance frame, a data frame, an extended data frame, an idle speech frame and a silence descriptor frame.

15. (Previously Presented) The telecommunications system of Claim 19, wherein said TRAU in-band control information does not include a Time Alignment command parameter.

16. (Previously Presented) The telecommunications system of Claim 19, wherein said UDP packet does not include synchronization bits, tail bits or spare bits.

17. (Previously Presented) The telecommunications system of Claim 19, wherein the length of said UDP packet varies.

18. (Previously Presented) The telecommunications system of Claim 19, wherein said TRAU in-band control information includes at least one of a phase alignment parameter, a handover command parameter, a request or indication flag parameter, an uplink frame error parameter, a discontinuous transmission request parameter, a frame classification parameter or a code mode indication or code mode request parameter.

19. (Currently Amended) A telecommunications system for transmitting Transcoder/Rate Adaptor Unit (TRAU) information in an Internet Protocol (IP) based Base Station System (BSS) architecture via an IP network, said telecommunications system comprising:

- a first node within said IP based BSS architecture that is adapted to:
  - receive a payload;
  - append TRAU in-band control information relevant to said payload and said IP based BSS architecture to said payload;

Appl. No. 09/627,913  
Amdt. Dated July 9, 2004  
Reply to Office action of April 19, 2004  
Attorney Docket No. P13318-US2  
EUS/J/P/04-3150

append a sequence number parameter defining a sequence number of said payload to said payload and said TRAU in-band control information, wherein the length of said sequence number is a function of the maximum jitter in said IP network; and

encapsulate said payload, said TRAU in-band control information and said sequence number parameter into a User Datagram Protocol (UDP) packet, said UDP packet including UDP header information and IP header information; and

a second node within said IP based BSS architecture and connected to said first node through said IP network, said second node being adapted to receive said UDP packet from said first node through said IP network using said UDP header information and said IP header information.

20. (Canceled)

21. (Previously Presented) The method of Claim 23, further comprising the step of:

appending frame type information associated with a frame type of said payload to said payload by said first node.

22. (Previously Presented) The method of Claim 23, wherein said step of appending TRAU in-band control information further comprises the step of :

appending at least one of a phase alignment parameter, a handover command parameter, a request or indication flag parameter, an uplink frame error parameter, a discontinuous transmission request parameter, a frame classification parameter or a code mode indication or code mode request parameter to said payload.

23. (Currently Amended) A method for transmitting Transcoder/Rate Adaptor Unit (TRAU) information in an Internet Protocol (IP) based Base Station System (BSS) architecture via an IP network, said method comprising the steps of:

receiving a payload at a first node within said IP based BSS architecture;

Appl. No. 09/627,913  
Amdt. Dated July 9, 2004  
Reply to Office action of April 19, 2004  
Attorney Docket No. P13318-US2  
EUS/J/P/04-3150

appending TRAU in-band control information relevant to said payload and said IP based BSS architecture to said payload by said first node;

appending a sequence number parameter defining a sequence number of said payload to said payload and said TRAU in-band control information by said first node; wherein the length of said sequence number is determined as a function of the maximum jitter in said IP network;

encapsulating said payload, said TRAU in-band control information and said sequence number parameter into a User Datagram Protocol (UDP) packet, said UDP packet including UDP header information and IP header information identifying a second node within said IP based BSS architecture; and

transmitting said UDP packet to said second node through said IP network.

24. (Previously Presented) The method of Claim 23, wherein said step of encapsulating further comprises the step of:

encapsulating said payload, said TRAU in-band control information and said sequence number parameter into said UDP packet without including a Time Alignment command parameter within said TRAU in-band control information.

25. (Previously Presented) The method of Claim 23, wherein said step of encapsulating further comprises the step of:

encapsulating said payload, said TRAU in-band control information and said sequence number parameter into said UDP packet without including synchronization bits, tail bits or spare bits within said UDP packet.